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☐ 1. Document ID: US 20080129298 A1

L51: Entry 1 of 30

File: PGPB

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Jun 5, 2008

CTATE COUNTED

PGPUB-DOCUMENT-NUMBER: 20080129298

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20080129298 A1

TITLE: High field magnetic resonance

PUBLICATION-DATE: June 5, 2008

INVENTOR-INFORMATION:

ייי אייי אייי

NAME	CITY	STATE	COUNTRY
Vaughan; J. Thomas	Stillwater	MN	US
Moortele; Pierre-Francois Van de	Minneapolis	MN	US
DelaBarre; Lance	St. Anthony	MN	US
Olson; Christopher C.	St. Paul	MN	US
Orser; Heather	St. Paul	MN	US
Gopinath; Anand	St. Paul	MN	US
Ugurbil; Kamil	Minneapolis	MN	US
Snyder; Carl	Minneapolis	MN	US
Adriany; Gregor	Minneapolis	MN	US
Akgun; Can E.	Woodbury	MN	US
Tian; Jinfeng	Minneapolis	MN	US
Strupp; John	Coon Rapids	MN	US
Andersen; Peter M.	Maple Plain	MN	US
Wu; Xiaoping	St. Paul	MN	US

US-CL-CURRENT: <u>324/322</u>

Full Title Citation Front Review Classification Date Reference Sequences	
Attachments Claims KWIC Draw Desc Image	

☐ 2. Document ID: US 20080097191 A1

L51: Entry 2 of 30

File: PGPB

Apr 24, 2008

PGPUB-DOCUMENT-NUMBER: 20080097191

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20080097191 A1

TITLE: Method for multiplexed MR tracking

PUBLICATION-DATE: April 24, 2008

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY

Dumoulin; Charles Ballston Lake NY US Guhde; Renee Clifton Park NY US

US-CL-CURRENT: 600/422

Full Title Citation Front Review Classification Date Reference Sequences
Attachments Claims KMC Draw Desc Image

☐ 3. Document ID: US 20080097189 A1

L51: Entry 3 of 30

File: PGPB

Apr 24, 2008

PGPUB-DOCUMENT-NUMBER: 20080097189

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20080097189 A1

TITLE: Combined MR imaging and tracking

PUBLICATION-DATE: April 24, 2008

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Dumoulin; Charles	Ballston Lake	NY	US
Gross; Patrick	Munich	NY	DE
Dixon; W. Thomas	Clifton Park		US

US-CL-CURRENT: 600/410

Full Title Citation Front Review Classification Date Reference Sequences	
Attachments Claims KWIC Draw Desc Image	

☐ 4. Document ID: US 20080012564 A1

L51: Entry 4 of 30 File:

File: PGPB Jan 17, 2008

PGPUB-DOCUMENT-NUMBER: 20080012564

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20080012564 A1

TITLE: DYNAMIC MAGNETIC RESONANCE INVERSE IMAGING

PUBLICATION-DATE: January 17, 2008

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY

Lin; Fa-Hsuan Brookline MA US

US-CL-CURRENT: 324/309

Full Title Citation Front Review Classification Date Reference Sequences
Attachments Claims KMC Draw Desc Image

☐ 5. Document ID: US 20060273786 A1

L51: Entry 5 of 30

File: PGPB

Dec 7, 2006

PGPUB-DOCUMENT-NUMBER: 20060273786

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060273786 A1

TITLE: Method of and apparatus for nuclear quadrupole resonance testing

a sample

PUBLICATION-DATE: December 7, 2006

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY

Smith; John A. S. London GB Pierson; Neil Francis Northampton GB

US-CL-CURRENT: <u>324/300</u>

Full Title	: Citation Fron	t Review C	Classification	Date F	Reference	Sequences
Attachments	Claims KMC	Draw Desc	mage		•	

☐ 6. Document ID: US 20060091884 A1

L51: Entry 6 of 30

File: PGPB

May 4, 2006

PGPUB-DOCUMENT-NUMBER: 20060091884

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060091884 A1

TITLE: Magnetic resonance imaging device

PUBLICATION-DATE: May 4, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Takahashi; Tetsuhiko	Soka-shi		JP
Takeuchi; Hiroyuki	Kashiwa-shi		JP
Takizawa; Masahiro	Kashiwa-shi		JP

US-CL-CURRENT: <u>324/318</u>; <u>324/309</u>

Full Title Citation Front Review Classification Date Reference Sequences	
Attachments Claims KMC Draw Desc Image	

☐ 7. Document ID: US 20050194975 A1

L51: Entry 7 of 30

File: PGPB

Sep 8, 2005

PGPUB-DOCUMENT-NUMBER: 20050194975

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050194975 A1

TITLE: Method and apparatus for serial array excitation for high field

magnetic resonance imaging

PUBLICATION-DATE: September 8, 2005

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY

Duensing, G. Randy Gainesville FL US

US-CL-CURRENT: 324/309; 324/307

run ille Challon riolit Review Classification	
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□ 8. Document ID: US 20050116710 A1

L51: Entry 8 of 30

File: PGPB

Jun 2, 2005

PGPUB-DOCUMENT-NUMBER: 20050116710

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050116710 A1

TITLE: Magnetic resonance imaging

PUBLICATION-DATE: June 2, 2005

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY

Ordidge, Roger John Kent GB
Priest, Andrew N. Fife GB
Carmichael, David William Dorset GB

US-CL-CURRENT: 324/309; 324/307

Full Title Citation Front Review Classification Date Reference Sequences
Attachments Claims KWC Draw Desc Image

☐ 9. Document ID: US 20050073306 A1

L51: Entry 9 of 30 File: PGPB

Apr 7, 2005

PGPUB-DOCUMENT-NUMBER: 20050073306

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050073306 A1

TITLE: Method of and apparatus for nuclear quadrupole resonance testing

a sample

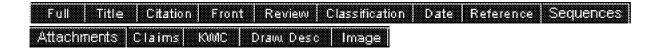
PUBLICATION-DATE: April 7, 2005

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY

Smith, John A. S. London GB Peirson, Neil Francis Northampton GB

US-CL-CURRENT: 324/316; 324/318



☐ 10. Document ID: US 20040222794 A1

L51: Entry 10 of 30

File: PGPB

Nov 11, 2004

PGPUB-DOCUMENT-NUMBER: 20040222794

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040222794 A1

TITLE: Data <u>acquisition</u> method for accelerated <u>magnetic resonance</u> imaging in framework of the <u>parallel acquisition</u> of MRT data

PUBLICATION-DATE: November 11, 2004

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY

Griswold, Mark A. Kitzingen DE Jakob, Peter Wurzburg DE

US-CL-CURRENT: <u>324/309</u>; <u>324/307</u>

Full Title Citation Front Review Classification Date Reference Sequences
Attachments Claims KWC Draw Desc Image

☐ 11. Document ID: US 20030122545 A1

L51: Entry 11 of 30

File: PGPB

Jul 3, 2003

PGPUB-DOCUMENT-NUMBER: 20030122545

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030122545 A1

TITLE: <u>Magnetic resonance</u> imaging method with a decay time function of sub-sampled acquisition data

PUBLICATION-DATE: July 3, 2003

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY Van Den Brink, Johan Eindhoven NLHoogeveen, Romhild Martijn Eindhoven NLFolkers, Paulus Johannes Maria Eindhoven NLPruessmann, Klaas Paul Zurich СН Weiger, Markus Zurich СН

US-CL-CURRENT: <u>324/309</u>; <u>324/307</u>

Full Title Citation Front Review Classification Date Reference Sequences
Attachments Claims KMC Draw Desc Image

☐ 12. Document ID: US 7394251 B2

L51: Entry 12 of 30

File: USPT

Jul 1, 2008

US-PAT-NO: 7394251

DOCUMENT-IDENTIFIER: US 7394251 B2

TITLE: Dynamic magnetic resonance inverse imaging

DATE-ISSUED: July 1, 2008

PRIOR-PUBLICATION:

DOC-ID DATE

US 20080012564 A1 January 17, 2008

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Lin; Fa-Hsuan Brookline MA US

US-CL-CURRENT: 324/309; 324/307



☐ 13. Document ID: US 7183770 B2

L51: Entry 13 of 30

File: USPT

Feb 27, 2007

US-PAT-NO: 7183770

DOCUMENT-IDENTIFIER: US 7183770 B2

TITLE: High-frequency system for an MR apparatus with multiple transmit

channels

DATE-ISSUED: February 27, 2007

PRIOR-PUBLICATION:

DOC-ID DATE

US 20060054810 A1 March 16, 2006

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Gra.beta.lin; Ingmar Bonningstedt DE Leussler; Christoph Gu Hamburg DE

US-CL-CURRENT: 324/322; 324/318

Full Title Citation Front Review Classification Date	
Reference Claims KMC Draw Desc I	

☐ 14. Document ID: US 7166999 B2

L51: Entry 14 of 30 File: USPT

Jan 23, 2007

US-PAT-NO: 7166999

DOCUMENT-IDENTIFIER: US 7166999 B2

** See image for Certificate of Correction **

TITLE: Method and apparatus for serial <u>array</u> excitation for high field <u>magnetic resonance</u> imaging

DATE-ISSUED: January 23, 2007

PRIOR-PUBLICATION:

DOC-ID DATE

US 20050194975 A1 September 8, 2005

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Duensing; G. Randy Gainesville FL US

US-CL-CURRENT: <u>324/309</u>; <u>324/307</u>

Full Title Citation Front Review	Classification Date
	ims KWMC Draw Desc Image

☐ 15. Document ID: US 7109705 B2

L51: Entry 15 of 30 File: USPT Sep 19, 2006

US-PAT-NO: 7109705

DOCUMENT-IDENTIFIER: US 7109705 B2

TITLE: Method of and apparatus for nuclear quadrupole resonance testing

a sample

DATE-ISSUED: September 19, 2006

PRIOR-PUBLICATION:

DOC-ID DATE

US 20050073306 A1 April 7, 2005

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Smith; John A. S. London GB Peirson; Neil Francis Northampton GB

US-CL-CURRENT: 324/300; 327/307

Full the Ofation Front Review Classification C	Z-I (- B
Reference Claims KMC Dr	aw Desc Image

☐ 16. Document ID: US 7064547 B1

L51: Entry 16 of 30 File: USPT Jun 20, 2006

US-PAT-NO: 7064547

DOCUMENT-IDENTIFIER: US 7064547 B1

** See image for Certificate of Correction **

TITLE: Method and apparatus of M/r imaging with coil calibration data

acquisition

DATE-ISSUED: June 20, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
King; Kevin F.	New Berlin	WI		US
Angelos; Elisabeth	Hartland	WI		US
Polzin; Jason A.	Lake Mills	WI		US

US-CL-CURRENT: 324/309

Full Title Citation Front Review Classificat	ion Date
	C Draw Desc Image

☐ 17. Document ID: US 7035682 B2

L51: Entry 17 of 30 File: USPT Apr 25, 2006

US-PAT-NO: 7035682

DOCUMENT-IDENTIFIER: US 7035682 B2

TITLE: Magnetic resonance imaging method with a decay time function of

sub-sampled acquisition data

DATE-ISSUED: April 25, 2006

PRIOR-PUBLICATION:

DOC-ID DATE

US 20030122545 A1 July 3, 2003

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Van Den Brink; Johan Eindhoven NL
Hoogeveen; Romhild Martijn Eindhoven NL
Folkers; Paulus Johannes Maria Eindhoven NL
Pruessmann; Klaas Paul Zurich CH
Weiger; Markus Dietikon CH

US-CL-CURRENT: 600/420; 600/419

Full Title Cita	tion Front Revi	ew Classification Date	
Rafarance		Claims KVMC Draw.D	esc Image

☐ 18. Document ID: US 7002344 B2

L51: Entry 18 of 30 File: USPT Feb 21, 2006

US-PAT-NO: 7002344

DOCUMENT-IDENTIFIER: US 7002344 B2

TITLE: Data <u>acquisition</u> method for accelerated <u>magnetic resonance</u> imaging in framework of the <u>parallel acquisition</u> of MRT data

DATE-ISSUED: February 21, 2006

PRIOR-PUBLICATION:

DOC-ID DATE

US 20040222794 A1 November 11, 2004

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Griswold; Mark A. 97318 Kitzingen DE Jakob; Peter 97074 Wurzburg DE

US-CL-CURRENT: 324/309; 324/307

Reference		#-30 * 10 (= 10)

☐ 19. Document ID: US 6891374 B2

L51: Entry 19 of 30 File: USPT May 10, 2005

US-PAT-NO: 6891374

DOCUMENT-IDENTIFIER: US 6891374 B2

TITLE: Moving table $\underline{\textbf{MRI}}$ with frequency-encoding in the z-direction

DATE-ISSUED: May 10, 2005

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Brittain; Jean Helen Menlo Park CA

US-CL-CURRENT: 324/309; 324/307, 324/318, 600/410, 600/415



☐ 20. Document ID: US 6794869 B2

L51: Entry 20 of 30

File: USPT

Sep 21, 2004

US-PAT-NO: 6794869

DOCUMENT-IDENTIFIER: US 6794869 B2

** See image for Certificate of Correction **

TITLE: Moving table MRI with frequency-encoding in the z-direction

DATE-ISSUED: September 21, 2004

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Brittain; Jean Helen Menlo Park CA

US-CL-CURRENT: 324/309; 324/306, 324/307, 324/318, 600/410, 600/415

Full Title Citation Front F	eview Classification Date
Reference	Claims KMC Draw Desc Image

☐ 21. Document ID: US 6704594 B1

L51: Entry 21 of 30 File: USPT

Mar 9, 2004

US-PAT-NO: 6704594

DOCUMENT-IDENTIFIER: US 6704594 B1

TITLE: Magnetic resonance imaging device

DATE-ISSUED: March 9, 2004

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Blank; Aharon Kiriat Ono IL
Alexandrowicz; Gil Jerusalem IL
Golan; Erez Tel Aviv IL

US-CL-CURRENT: 600/423; 128/899, 324/318, 324/322, 600/407, 600/409, 600/410, 600/421



☐ 22. Document ID: US 6597935 B2

L51: Entry 22 of 30 File: USPT

Jul 22, 2003

US-PAT-NO: 6597935

DOCUMENT-IDENTIFIER: US 6597935 B2

TITLE: Method for harmonic phase magnetic resonance imaging

DATE-ISSUED: July 22, 2003

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Prince; Jerry L. Lutherville MD Osman; Nael F. Baltimore MD

US-CL-CURRENT: 600/410; 324/309

F 1	ew Classification Date
Reference	Claims KWC Draw Desc Image

☐ 23. Document ID: US 6593740 B1

L51: Entry 23 of 30

File: USPT

Jul 15, 2003

US-PAT-NO: 6593740

DOCUMENT-IDENTIFIER: US 6593740 B1

TITLE: <u>Magnetic resonance</u> imaging method with a decay time function of sub-sampled acquisition data

DATE-ISSUED: July 15, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP	CODE	COUNTRY
Van Den Brink; Johan	Eindhoven				NL
Hoogeveen; Romhild Martijn	Eindhoven				NL
Folkers; Paulus Johannes Maria	Eindhoven				NL
Pruessmann; Klaas Paul	Zurich				СН
Weiger; Markus	Dietikon				СН

US-CL-CURRENT: 324/307; 324/309

Full Title Citation Front Review Classification Date	
Reference Claims KMC Draw Desc Imag	E

☐ 24. Document ID: US 6566873 B1

L51: Entry 24 of 30

File: USPT

May 20, 2003

US-PAT-NO: 6566873

DOCUMENT-IDENTIFIER: US 6566873 B1

TITLE: Method of and apparatus for nuclear quadrupole resonance testing

a sample

DATE-ISSUED: May 20, 2003

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Smith; John Alec Sydney London GB

Peirson; Neil Francis Northampton

GB

US-CL-CURRENT: <u>324/300</u>; <u>324/314</u>



☐ 25. Document ID: US 6492814 B1

L51: Entry 25 of 30

File: USPT

Dec 10, 2002

US-PAT-NO: 6492814

DOCUMENT-IDENTIFIER: US 6492814 B1

TITLE: Self localizing receive coils for MR

DATE-ISSUED: December 10, 2002

INVENTOR-INFORMATION:

NAME STATE ZIP CODE COUNTRY CITY

Watkins; Ronald Dean Niskayuna NY Dumoulin; Charles Lucian Ballston Lake NY Darrow; Robert David Scotia NY

US-CL-CURRENT: <u>324/318</u>; <u>324/322</u>, <u>600/421</u>

Full Title Citation Front Revie	ew Classification Date
Reference	Claims KMC Draw Desc Image

☐ 26. Document ID: US 6334846 B1

L51: Entry 26 of 30

File: USPT

Jan 1, 2002

US-PAT-NO: 6334846

DOCUMENT-IDENTIFIER: US 6334846 B1

** See image for Certificate of Correction **

TITLE: Ultrasound therapeutic apparatus

DATE-ISSUED: January 1, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ishibashi; Yoshiharu	Tokyo			JP
Fujimoto; Katsuhiko	Urawa			JP
Shibata; Mariko	Yokohama			JP
Suzuki; Takuji	Kawasaki			JP
Aida; Satoshi	Tokyo			JP

US-CL-CURRENT: 600/439; 600/412

Full Title Citation Front Review Classification	
Reference Claims KMC	5000 %:0 5~ L\L\G00 %:0~000 CO. K00000 4000 O 8 0 1~ LW L~ 600 I

☐ 27. Document ID: US 6307368 B1

L51: Entry 27 of 30 File: USPT Oct 23, 2001

US-PAT-NO: 6307368

DOCUMENT-IDENTIFIER: US 6307368 B1

** See image for Certificate of Correction **

TITLE: Linear combination steady-state free precession MRI

DATE-ISSUED: October 23, 2001

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Vasanawala; Shreyas S. Mountain View CA Pauly; John M. Redwood City CA Nishimura; Dwight G. Palo Alto CA

US-CL-CURRENT: <u>324/309</u>; <u>324/300</u>, <u>324/307</u>, <u>324/311</u>



☐ 28. Document ID: US 5150053 A

L51: Entry 28 of 30

File: USPT

Sep 22, 1992

US-PAT-NO: 5150053

DOCUMENT-IDENTIFIER: US 5150053 A

TITLE: Magnetic resonance imaging of short T.sub.2 species with improved

contrast

DATE-ISSUED: September 22, 1992

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Pauly; John M. Menlo Park CA Conolly; Steven M. Menlo Park CA Nishimura; Dwight G. Palo Alto CA

US-CL-CURRENT: 324/309; 324/307

Full Title Citation Front Review	ew Classification Date
	Claims KMC Draw Desc Image

☐ 29. Document ID: US 4985677 A

L51: Entry 29 of 30

File: USPT

Jan 15, 1991

US-PAT-NO: 4985677

DOCUMENT-IDENTIFIER: US 4985677 A

TITLE: Magnetic resonance imaging and spectroscopy using an excitation

pulse for multiple-dimensional selectivity

DATE-ISSUED: January 15, 1991

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Pauly; John M. Menlo Park CA

US-CL-CURRENT: <u>324/309</u>



☐ 30. Document ID: US 4629988 A

L51: Entry 30 of 30 File: USPT Dec 16, 1986

US-PAT-NO: 4629988

DOCUMENT-IDENTIFIER: US 4629988 A

TITLE: Method of imaging by depth-resolved surface coil spectroscopy

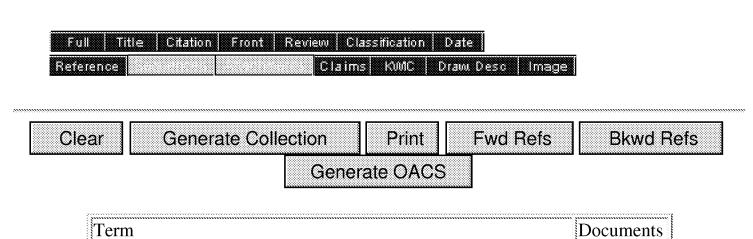
DATE-ISSUED: December 16, 1986

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Bottomley; Paul A. Clifton Park NY

US-CL-CURRENT: <u>324/309</u>; <u>324/322</u>



(33 AND 50).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	30
(L50 and L33).PGPB,USPT,USOC,EPAB,JPAB,DWPI,	30
IDBD.	

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